

Tellico Reservoir

Annual Report 2009

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## Tellico Reservoir - 2009

### Description

**Area:** 16,056 acres

**Shoreline:** 373 miles

**Counties:** Blount, Monroe, and Loudon

**Total Fishing Effort in 2007:** 190,448 hours

**Total Value by Anglers in 2007:** \$679,630.00

### Black Bass

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Angling Pressure</b>											
All Black Bass (hrs)	-	-	167,718	-	-	-	105,515	80,036	-	-	117,756
All Black Bass (hrs/acre)	-	-	10.45	-	-	-	6.57	4.98	-	-	7.33
Any Black Bass (hrs)	-	-	157,867	-	-	-	105,515	80,036	-	-	114,473
Any Black Bass (hrs/acre)	-	-	9.83	-	-	-	6.57	4.98	-	-	7.13
Largemouth Bass (hrs)	-	-	5,864	-	-	-	0	0	-	-	1,955
Largemouth Bass (hrs/acre)	-	-	0.37	-	-	-	0.00	0.00	-	-	0.12
Smallmouth Bass (hrs)	-	-	3,987	-	-	-	0	0	-	-	1,329
Smallmouth Bass (hrs/acre)	-	-	0.25	-	-	-	0.00	0.00	-	-	0.08
Spotted Bass (hrs)	-	-	0	-	-	-	0	0	-	-	0
Spotted Bass (hrs/acre)	-	-	0.00	-	-	-	0.00	0.00	-	-	0.00
<b>Tournaments (all black bass)</b>											
Tournament Angler Hrs/Acre (creel)	-	-	-	-	-	-	-	-	-	-	-
Tournament Catch Rate (creel)	-	-	-	-	-	-	-	-	-	-	-
Non-Tournament Catch Rate (creel)	-	-	-	-	-	-	-	-	-	-	-
<b>Value of Fishery (Trip Expenditures)</b>											
All Black Bass	-	-	\$378,110	-	-	-	\$374,920	\$389,330	-	-	\$380,787
Any Black Bass	-	-	\$361,760	-	-	-	\$374,920	\$389,330	-	-	\$375,337
Largemouth Bass	-	-	\$11,430	-	-	-	\$0	\$0	-	-	\$3,810
Smallmouth Bass	-	-	\$4,920	-	-	-	\$0	\$0	-	-	\$1,640
Spotted Bass	-	-	\$0	-	-	-	\$0	\$0	-	-	\$0

## Largemouth Bass

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Recruitment</b> (electrofishing)											
Substock CPUE	7.40	15.30	5.80	-	5.50	15.00	5.70	15.00	11.30	4.00	9.44
<b>Density</b> (electrofishing)											
PSD	52	62	63	-	64	67	45	65	57	72	61
RSD (preferred)	-	13	14	-	12	18	12	15	12	15	14
CPUE (total)	38.8	42.6	48.3	-	47.0	77.0	48.7	37.0	56.0	44.0	48.8
CPUE ≥ Stock	31.4	27.3	42.5	-	41.5	62.0	43.0	22.0	44.7	40.0	39.4
CPUE ≥ MLL (14-inches)	-	5.3	11.0	-	10.3	20.3	10.3	4.0	8.0	9.6	9.8
<b>Growth</b> (electrofishing)											
Length Age-1	-	-	-	-	-	-	-	-	-	-	-
Length Age-3	-	-	-	-	-	-	-	-	-	-	-
<b>Condition</b> (spring electrofishing)											
Stock	79.2	80.5	80.8	-	81.3	80.5	79.0	80.4	80.1	77.7	79.9
Quality	80.6	81.1	83.1	-	83.0	83.5	81.7	80.2	80.8	78.4	81.4
Preferred	89.2	88.6	87.1	-	84.5	86.8	92.2	85.8	87.0	83.7	87.2
Memorable	74.6	88.8	97.0	-	-	80.3	95.9	87.6	86.7	85.6	87.1
<b>Mortality</b> (electrofishing)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
<b>Fishing Success</b> (creel)											
Catch Rate (intended)	-	-	0.59	-	-	-	-	-	-	-	0.59
Harvest Rate (intended)	-	-	0.00	-	-	-	-	-	-	-	0.00
% Released	-	-	99.0%	-	-	-	97.6%	98.2%	-	-	98.3%
Mean Weight	-	-	2.63	-	-	-	2.69	1.94	-	-	2.42

Fishery Forecast: The TWRA's electrofishing catch rates for largemouth remain good, but the size structure continues to be disappointing.

Management Recommendations: No regulation changes are planned for the near future.

## Smallmouth Bass

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Recruitment</b> (electrofishing)											
Substock CPUE	0.60	2.50	2.50	-	1.30	1.00	2.30	2.00	0.00	0.00	1.36
<b>Density</b> (electrofishing)											
PSD	45	43	50	-	56	46	32	54	56	60	49
RSD (preferred)	-	13	22	-	14	21	9	23	11	47	20
CPUE (preferred)	0.4	0.5	1.0	-	1.3	1.7	0.7	1.0	0.3	2.4	1.0
CPUE (memorable)	0.2	0.3	0.8	-	0.3	0.7	0.0	0.0	0.0	0.0	0.2
CPUE (trophy)	0.0	0.0	0.0	-	0.0	0.3	0.0	0.0	0.0	0.4	0.1
CPUE (total)	5.0	8.3	10.5	-	12.0	14.0	9.7	6.3	3.0	6.0	8.3
CPUE $\geq$ Stock	4.4	5.8	8.0	-	10.7	13.0	7.4	4.3	3.0	6.0	7.0
CPUE $\geq$ Preferred	0.6	0.8	1.8	-	1.5	2.7	0.7	1.0	0.3	2.8	1.3
CPUE $\geq$ MLL (18-inches)	-	0.3	0.8	-	0.3	0.7	0.0	0.0	0.0	0.4	0.3
<b>Growth</b> (electrofishing)											
Length Age-1	-	-	-	-	-	-	-	-	-	-	-
Length Age-3	-	-	-	-	-	-	-	-	-	-	-
<b>Condition</b> (spring electrofishing)											
Stock	77.1	80.1	86.0	-	80.7	83.1	79.7	79.8	75.3	76.3	79.8
Quality	75.5	77.0	82.5	-	79.3	81.6	73.4	82.1	71.0	84.7	78.6
Preferred	81.4	81.1	81.3	-	79.8	78.6	83.5	75.8	-	75.7	79.6
Memorable	85.8	75.9	78.3	-	71.1	75.6	-	-	-	-	77.3
<b>Mortality</b> (electrofishing)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
<b>Fishing Success</b> (creel)											
Catch Rate (intended)	-	-	0.16	-	-	-	-	-	-	-	0.16
Harvest Rate (intended)	-	-	0.00	-	-	-	-	-	-	-	0.00
% Released	-	-	99.6%	-	-	-	99.2%	100.0%	-	-	99.6%
Mean Weight	-	-	1.45	-	-	-	3.40	-	-	-	2.43

Fishery Forecast: Although not documented via our “standardized” daytime electrofishing samples, other information suggest the 18-inch minimum length limit has helped increase the number of smallmouth and should continue to help improve the quality of the fishery.

Management Recommendations: We encourage anglers to be patient with the relatively new 18-inch size limit. It may take several years to determine if it is going to help to improve the quality of the fishery.

## Spotted Bass

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Recruitment</b> (electrofishing)											
Substock CPUE	6.40	10.80	6.80	-	6.00	9.00	8.00	9.00	3.00	1.20	6.69
<b>Density</b> (electrofishing)											
PSD	11	31	15	-	23	33	22	18	26	33	24
RSD (preferred)	-	-	1	-	2	2	1	1	1	-	1
CPUE (total)	32.5	37.0	42.5	-	52.3	46.0	51.3	38.7	35.7	18.4	39.4
CPUE $\geq$ Stock	26.1	26.2	35.7	-	46.3	37.0	43.3	29.7	32.7	17.2	32.7
<b>Growth</b> (electrofishing)											
Length Age-1	-	-	-	-	-	-	-	-	-	-	-
Length Age-3	-	-	-	-	-	-	-	-	-	-	-
<b>Condition</b> (spring electrofishing)											
Stock	85.2	84.7	88.9	-	84.6	87.6	83.8	82.5	88.2	86.0	85.7
Quality	79.6	84.8	85.4	-	83.3	83.8	74.7	76.4	80.1	79.3	80.8
Preferred	85.1	-	89.4	-	90.7	86.9	65.3	82.8	73.5	-	82.0
<b>Mortality</b> (electrofishing)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
<b>Fishing Success</b> (creel)											
Catch Rate (intended)	-	-	-	-	-	-	-	-	-	-	-
Harvest Rate (intended)	-	-	-	-	-	-	-	-	-	-	-
% Released	-	-	98.9%	-	-	-	98.5%	100.0%	-	-	99.1%
Mean Weight	-	-	0.40	-	-	-	2.10	-	-	-	1.25

Fishery Forecast: Anglers are encouraged to harvest this species for the table because they compete with the more desirable and larger growing largemouth and smallmouth bass.

Management Recommendations: Continue to encourage anglers to harvest spotted bass.

## Black Crappie

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Density</b> (electrofishing)											
PSD	100	100	75	-	92	100	100	100	50	100	91
RSD (preferred)	-	100	42	-	38	71	100	100	50	100	75
CPUE (total)	0.4	0.8	3.0	-	3.3	2.3	1.3	0.7	1.3	0.4	1.5
CPUE $\geq$ Stock	0.4	0.8	3.0	-	3.3	2.3	1.3	0.7	1.3	0.4	1.5
CPUE $\geq$ MLL (10-inches)	-	0.8	1.0	-	1.3	1.3	1.3	0.7	0.7	0.4	0.9
<b>Growth</b> (electrofishing)											
Length Age-1	-	-	-	-	-	-	-	-	-	-	-
Length Age-3	-	-	-	-	-	-	-	-	-	-	-
<b>Condition</b> (electrofishing)											
Stock	-	-	82.3	-	79.2	-	-	-	-	-	80.8
Quality	-	-	75.7	-	79.8	81.5	-	-	-	-	79.0
Preferred	73.2	80.9	82.1	-	85.9	78.2	79.5	78.9	79.0	84.5	80.2
Memorable	79.7	66.8	78.3	-	71.7	78.0	-	-	71.0	-	74.3
<b>Mortality</b> (electrofishing)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
<b>Angling Pressure</b> (creel)											
Angler Hours (all crappie)	-	-	151,835	-	-	-	67,903	63,333	-	-	94,357
Angler Hours/Acre	-	-	9.5	-	-	-	4.2	3.9	-	-	5.9
<b>Fishing Success</b> (creel)											
Catch Rate (any crappie)	-	-	1.97	-	-	-	2.02	1.79	-	-	1.93
Harvest Rate (any crappie)	-	-	0.57	-	-	-	0.69	0.55	-	-	0.60
% Released (black crappie)	-	-	53.3%	-	-	-	40.5%	25.8%	-	-	39.9%
Mean Weight (black crappie)	-	-	0.60	-	-	-	0.95	0.73	-	-	0.76
<b>Value of Fishery</b> (Trip Expenditures - creel)											
All Crappie	-	-	\$268,360	-	-	-	\$179,670	\$182,140	-	-	\$210,057

Fishery Forecast: Black crappie have never been abundant in our Tellico electrofishing samples and this trend continues.

Management Recommendations: No changes in creel limits are planned for the future.

## White Crappie

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Density</b> (electrofishing)											
PSD	99	100	100	-	100	100	100	100	100	100	100
RSD (preferred)	-	64	73	-	74	63	67	78	44	100	70
CPUE (total)	13.8	3.5	9.3	-	13.3	15.3	3.0	3.0	11.3	0.8	8.1
CPUE $\geq$ Stock	13.8	3.5	9.3	-	13.3	15.3	3.0	3.0	11.3	0.8	8.1
CPUE $\geq$ MLL (10-inches)	-	2.0	6.5	-	8.8	8.0	1.3	1.7	5.0	0.8	4.3
<b>Growth</b> (electrofishing)											
Length Age-1	-	-	-	-	-	-	-	-	-	-	-
Length Age-3	-	-	-	-	-	-	-	-	-	-	-
<b>Condition</b> (electrofishing)											
Stock	77.9	-	-	-	-	-	-	-	-	-	77.9
Quality	80.4	74.9	76.8	-	82.7	80.9	76.9	82.6	79.1	-	79.3
Preferred	78.8	77.2	79.2	-	80.3	78.2	74.2	80.5	76.7	77.3	78.0
Memorable	77.9	78.3	77.4	-	82.0	74.7	-	76.9	78.1	-	77.9
<b>Mortality</b> (electrofishing)											
Total Mortality	-	-	-	-	-	-	-	-	-	-	-
<b>Angling Pressure</b> (creel)											
Angler Hours (all crappie)	-	-	151,835	-	-	-	67,903	63,333	-	-	94,357
Angler Hours/Acre	-	-	9.5	-	-	-	4.2	3.9	-	-	5.9
<b>Fishing Success</b> (creel)											
Catch Rate (any crappie)	-	-	1.97	-	-	-	2.02	1.79	-	-	1.93
Harvest Rate (any crappie)	-	-	0.57	-	-	-	0.69	0.55	-	-	0.60
% Released (white crappie)	-	-	74.5%	-	-	-	69.9%	74.6%	-	-	73.0%
Mean Weight (white crappie)	-	-	0.58	-	-	-	0.61	0.69	-	-	0.63
<b>Value of Fishery</b> (Trip Expenditures - creel)											
All Crappie	-	-	\$268,360	-	-	-	\$179,670	\$182,140	-	-	\$210,057

Fishery Forecast: The TWRA collected very few crappie by electrofishing in 2009, but our creel surveys suggest anglers have caught good numbers of crappie during the past several years.

Management Recommendations: No changes in creel limits are planned for the future.



## Walleye

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Stocking</b>											
#	71,733	0	155,750	0	94,689	0	44,228	51,794	21,160	30,400	46,975
#/Acre	4.5	0.0	9.7	0.0	5.9	0.0	2.8	3.2	1.3	1.9	2.9
<b>Angling Pressure (creel)</b>											
Angler Hours	-	-	16,520	-	-	-	9,239	2,523	-	-	9,427
Angler Hours/Acre	-	-	1.0	-	-	-	0.6	0.2	-	-	0.6
<b>Fishing Success (creel)</b>											
Catch Rate (intended)	-	-	0.11	-	-	-	0.29	0.17	-	-	0.19
Harvest Rate (intended)	-	-	0.10	-	-	-	0.10	0.02	-	-	0.07
% Released	-	-	13.7%	-	-	-	68.9%	81.5%	-	-	54.7%
Mean Weight	-	-	2.02	-	-	-	2.93	4.08	-	-	3.01
<b>Value of Fishery (Trip Expenditures - creel)</b>											
Walleye	-	-	\$45,200	-	-	-	\$31,780	\$13,310	-	-	\$30,097

Fishery Forecast: Walleye are stocked on a regular basis and anglers report quality fish are present. Few are ever collected while electrofishing, but our latest gill net sample indicated a significant population exists.

Management Recommendations: No changes in creel limits are planned for the future.

## Striped Bass

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Angling Pressure (creel)</b>											
Angler Hours	-	-	3,745	-	-	-	2,330	983	-	-	2,353
Angler Hours/Acre	-	-	0.2	-	-	-	0.1	0.1	-	-	0.1
<b>Fishing Success (creel)</b>											
Catch Rate (intended)	-	-	0.08	-	-	-	0.31	0.23	-	-	0.21
Harvest Rate (intended)	-	-	0.00	-	-	-	0.04	0.00	-	-	0.01
% Released	-	-	100.0%	-	-	-	96.2%	98.9%	-	-	98.4%
Mean Weight	-	-	-	-	-	-	41.25	3.15	-	-	22.20
<b>Value of Fishery (Trip Expenditures - creel)</b>											
Striped Bass	-	-	\$9,470	-	-	-	\$11,730	\$3,890	-	-	\$8,363

## Sunfish

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Angling Pressure</b> (creel)											
Angler Hours (all sunfish)	-	-	6,065	-	-	-	402	1,553	-	-	2,673
Angler Hours/Acre	-	-	0.4	-	-	-	0.0	0.1	-	-	0.2
<b>Fishing Success</b> (creel)											
Catch Rate (any sunfish)	-	-	5.67	-	-	-	2.50	2.73	-	-	3.63
Harvest Rate (any sunfish)	-	-	1.28	-	-	-	0.00	0.63	-	-	0.64
% Released (bluegill)	-	-	79.4%	-	-	-	80.0%	86.9%	-	-	82.1%
Mean Weight (bluegill)	-	-	0.32	-	-	-	0.42	0.49	-	-	0.41
<b>Value of Fishery</b> (Trip Expenditures - creel)											
All Sunfish	-	-	\$5,070	-	-	-	\$440	\$3,080	-	-	\$2,863

## Catfish

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Mean
<b>Angling Pressure</b> (creel)											
Angler Hours (all catfish)	-	-	1,928	-	-	-	552	940	-	-	1,140
Angler Hours/Acre	-	-	0.1	-	-	-	0.0	0.1	-	-	0.1
<b>Fishing Success</b> (creel)											
Catch Rate (any catfish)	-	-	1.00	-	-	-	0.00	0.00	-	-	0.33
Harvest Rate (any catfish)	-	-	0.00	-	-	-	0.00	0.00	-	-	0.00
% Released (channel)	-	-	38.1%	-	-	-	-	-	-	-	38.1%
Mean Weight (channel)	-	-	1.85	-	-	-	-	-	-	-	1.85
<b>Value of Fishery</b> (Trip Expenditures - creel)											
All Catfish	-	-	\$1,180	-	-	-	\$7,070	\$3,210	-	-	\$3,820

## Habitat Enhancement

Type of Work	Details	Quantity	
		New	Renovated
Rebrush	Christmas trees with block	none	7 sites, 350 units, 7 acres

## Water Quality Monitoring

Parameter	Sampling Period	Water Quality
Temperature	July	Normal
Dissolved Oxygen	July	Normal
PH	July	Normal
Conductivity	July	Normal

## Tables

Table 1. Tellico Reservoir physical and chemical characteristics.

Surface Area	16,056 acres
Full Pool Elevation	813 feet-msl
Mean Annual Fluctuation	6 feet
Shoreline Distance	357 miles
Total Developed Shoreline	7%
Maximum Depth	78 feet
Thermocline Depth	10 feet (Aug 2007)
Trophic Status (Forebay)	Mesotrophic
Mean Chlorophyll (Forebay)	6.2 mg/L
Trophic Index Value	49.2
Hydraulic Retention Time	37 days
Year Impounded	1979

Table 2 Tellico Reservoir fish stockings 1993 - 2009.

Species	Year	Rate (per acre)	Size Group (in.) Range	Total Stocked
Walleye	1995	0.5	1.5	7,751
	1994	5.9	1.5	94,725
	1995	7.7	1.5	123,848
	1998	10.2	1.5	162,991
	2000	4.5	1.5 - 2.0	71,733
	2002	9.7	1.0 - 2.5	155,750
	2004	5.9	1.5 - 2.0	94,689
	2006	2.8	0.8 - 2.8	44,228
	2007	3.2	1.0 - 3.0	51,794
	2008	1.3	0.8 - 1.3	21,160
	2009	1.9	1.0 - 1.8	30,400
Rainbow Trout	1993	2.7	Adult	43,562
	1994	1.0	Adult	16,046
	1995	2.5	Adult	40,110
	1996	1.8	Adult	28,412
	1997	0.5	Adult	8,087
	1998	0.4	Adult	5,992
	1999	0.3	Adult	5,016
	2000	0.6	Adult	9,413
	2001	0.4	Adult	6,016
	2002	0.4	Adult	6,038
	2003	0.5	Adult	7,492
	2004	0.4	Adult	6,004
	2005	0.1	Adult	1,001
	2006	0.1	Adult	1,000
	2007	0.7	Adult	11,006
2008	0.4	Adult	6,034	
Brown Trout	1998	0.3	Adult	4,797
	1999	0.9	Advanced Fingerlings	13,960
	2003	0.9	Fingerlings	14,524



Table 4. Mean relative weight and standard error values by size class for Tellico Reservoir largemouth bass collected during the 2009 electrofishing sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
9	77.2	0.6	3
10	79.7	2.2	10
11	76.5	1.2	19
12	78.3	1.2	29
13	79.7	1.2	15
14	77.3	1.7	9
15	83.8	3.1	4
16	86.2	2.7	2
17	80.1	0.6	2
18			
19	84.4	2.9	3
20			
21	82.3	5.1	3
22	95.5		1
<b>Total Catch</b>			<b>100</b>

Table 5. Mean relative weight and standard error values by size class for Tellico Reservoir spotted bass collected during the 2009 electrofishing sample.

<b>Size Class</b>	<b>Mean Wr</b>	<b>Std. Error</b>	<b>N</b>
7	93.7		1
8	93.4	2.1	3
9	87.7	1.3	6
10	83.1	1.2	17
11	78.4	1.7	7
12	77.6	2.1	5
13	86.9	4.9	2
<b>Total Catch</b>			<b>41</b>



Table 6. Summary of July 2009 Tellico Reservoir water quality parameters at Little Tennessee River Mile 3.

Depth (ft)	Temp F	Cond	PH	DO	Site	Secchi (ft)	Time	Date
0	77.9	82	8.6	7.6	LT3	7.5	650	7/8/2009
3	77.9	82	8.6	7.8				
7	77.9	81	8.6	7.5				
10	69.6	49	8.6	9.2				
13	64.8	37	8.5	8.2				
16	62.6	33	8.4	7.5				
20	61.2	32	8.3	7.3				
23	60.4	31	8.2	7.0				
26	59.7	31	8.1	7.0				
30	59.5	32	8.1	7.1				
33	58.8	31	8.0	6.9				
36	58.1	32	8.0	6.5				
39	57.2	34	8.0	5.7				
43	57.0	35	7.9	5.6				
46	56.7	36	7.9	5.3				
49	56.5	37	7.9	5.2				
52	56.3	38	7.8	4.8				
56	56.1	39	7.8	4.7				
59	55.8	41	7.8	4.1				
62	55.4	45	7.7	3.8				
66	55.0	48	7.7	3.2				
69	54.5	53	7.7	2.4				
72	54.1	56	7.7	2.2				
75	54.0	59	7.6	1.8				
79	53.8	60	7.6	1.6				
82	53.6	62	7.6	1.4				
85	53.6	62	7.6	1.3				

Table 7. Tellico Reservoir water levels for 2009. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
809.26	JANUARY	1	808.13	FEBRUARY	24	811.69	APRIL	19
809.09	JANUARY	2	807.82	FEBRUARY	25	811.77	APRIL	20
809.12	JANUARY	3	808.45	FEBRUARY	26	811.74	APRIL	21
808.90	JANUARY	4	808.68	FEBRUARY	27	811.76	APRIL	22
808.74	JANUARY	5	809.01	FEBRUARY	28	811.78	APRIL	23
810.28	JANUARY	6	809.09	MARCH	1	811.89	APRIL	24
812.64	JANUARY	7	808.86	MARCH	2	811.96	APRIL	25
810.90	JANUARY	8	808.85	MARCH	3	812.06	APRIL	26
809.67	JANUARY	9	808.69	MARCH	4	812.10	APRIL	27
809.21	JANUARY	10	809.04	MARCH	5	812.15	APRIL	28
808.78	JANUARY	11	809.30	MARCH	6	812.16	APRIL	29
808.21	JANUARY	12	809.46	MARCH	7	812.24	APRIL	30
807.72	JANUARY	13	809.12	MARCH	8	812.37	MAY	1
808.11	JANUARY	14	808.91	MARCH	9	812.53	MAY	2
808.46	JANUARY	15	808.80	MARCH	10	812.98	MAY	3
808.81	JANUARY	16	808.79	MARCH	11	813.51	MAY	4
809.18	JANUARY	17	808.79	MARCH	12	813.14	MAY	5
808.92	JANUARY	18	808.96	MARCH	13	812.48	MAY	6
809.19	JANUARY	19	809.32	MARCH	14	812.23	MAY	7
809.14	JANUARY	20	809.92	MARCH	15	812.84	MAY	8
809.26	JANUARY	21	810.30	MARCH	16	813.28	MAY	9
809.15	JANUARY	22	810.45	MARCH	17	813.44	MAY	10
809.18	JANUARY	23	810.31	MARCH	18	813.27	MAY	11
808.99	JANUARY	24	810.29	MARCH	19	813.16	MAY	12
808.96	JANUARY	25	810.26	MARCH	20	813.08	MAY	13
808.84	JANUARY	26	810.17	MARCH	21	813.18	MAY	14
808.14	JANUARY	27	810.02	MARCH	22	812.78	MAY	15
807.94	JANUARY	28	809.92	MARCH	23	812.14	MAY	16
808.34	JANUARY	29	809.88	MARCH	24	812.85	MAY	17
808.14	JANUARY	30	809.82	MARCH	25	812.70	MAY	18
808.05	JANUARY	31	809.88	MARCH	26	812.43	MAY	19
807.99	FEBRUARY	1	809.87	MARCH	27	812.38	MAY	20
808.20	FEBRUARY	2	809.89	MARCH	28	812.63	MAY	21
808.32	FEBRUARY	3	810.23	MARCH	29	812.93	MAY	22
808.58	FEBRUARY	4	810.33	MARCH	30	813.00	MAY	23
809.03	FEBRUARY	5	810.31	MARCH	31	812.92	MAY	24
809.15	FEBRUARY	6	810.46	APRIL	1	812.99	MAY	25
809.02	FEBRUARY	7	810.58	APRIL	2	812.79	MAY	26
808.66	FEBRUARY	8	810.87	APRIL	3	812.70	MAY	27
808.38	FEBRUARY	9	811.11	APRIL	4	812.87	MAY	28
808.21	FEBRUARY	10	811.20	APRIL	5	813.05	MAY	29
808.14	FEBRUARY	11	811.25	APRIL	6	813.08	MAY	30
808.30	FEBRUARY	12	811.23	APRIL	7	813.02	MAY	31
808.46	FEBRUARY	13	811.24	APRIL	8	812.80	JUNE	1
808.54	FEBRUARY	14	811.34	APRIL	9	812.79	JUNE	2
808.60	FEBRUARY	15	811.67	APRIL	10	812.52	JUNE	3
808.63	FEBRUARY	16	812.11	APRIL	11	812.86	JUNE	4
808.74	FEBRUARY	17	812.11	APRIL	12	813.10	JUNE	5
809.10	FEBRUARY	18	811.95	APRIL	13	813.16	JUNE	6
809.34	FEBRUARY	19	811.77	APRIL	14	812.98	JUNE	7
809.46	FEBRUARY	20	811.69	APRIL	15	812.90	JUNE	8
809.29	FEBRUARY	21	811.67	APRIL	16	812.59	JUNE	9
809.02	FEBRUARY	22	811.64	APRIL	17	812.84	JUNE	10
808.67	FEBRUARY	23	811.62	APRIL	18	812.97	JUNE	11

Table 8. Tellico Reservoir water levels for 2009. (TVA)

ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY	ELEVATION	MONTH	DAY
812.98	JUNE	12	812.52	AUGUST	5	812.86	SEPTEMBER	28
812.88	JUNE	13	812.30	AUGUST	6	812.04	SEPTEMBER	29
812.84	JUNE	14	812.51	AUGUST	7	812.02	SEPTEMBER	30
812.85	JUNE	15	812.58	AUGUST	8	812.17	OCTOBER	1
812.82	JUNE	16	812.59	AUGUST	9	812.41	OCTOBER	2
812.98	JUNE	17	812.37	AUGUST	10	812.18	OCTOBER	3
813.29	JUNE	18	812.36	AUGUST	11	812.11	OCTOBER	4
813.17	JUNE	19	812.23	AUGUST	12	812.16	OCTOBER	5
813.14	JUNE	20	812.20	AUGUST	13	812.04	OCTOBER	6
813.32	JUNE	21	812.18	AUGUST	14	812.05	OCTOBER	7
813.40	JUNE	22	812.06	AUGUST	15	812.06	OCTOBER	8
813.28	JUNE	23	812.12	AUGUST	16	812.12	OCTOBER	9
813.07	JUNE	24	812.24	AUGUST	17	812.38	OCTOBER	10
812.88	JUNE	25	812.37	AUGUST	18	811.98	OCTOBER	11
813.21	JUNE	26	812.70	AUGUST	19	811.69	OCTOBER	12
812.89	JUNE	27	812.71	AUGUST	20	812.04	OCTOBER	13
812.64	JUNE	28	812.76	AUGUST	21	812.44	OCTOBER	14
812.77	JUNE	29	812.97	AUGUST	22	813.18	OCTOBER	15
812.86	JUNE	30	812.94	AUGUST	23	813.81	OCTOBER	16
812.80	JULY	1	812.70	AUGUST	24	813.49	OCTOBER	17
812.72	JULY	2	812.73	AUGUST	25	813.33	OCTOBER	18
812.66	JULY	3	812.73	AUGUST	26	813.30	OCTOBER	19
812.81	JULY	4	812.87	AUGUST	27	813.40	OCTOBER	20
812.81	JULY	5	813.07	AUGUST	28	813.16	OCTOBER	21
812.75	JULY	6	813.44	AUGUST	29	812.76	OCTOBER	22
812.44	JULY	7	812.86	AUGUST	30	812.55	OCTOBER	23
812.56	JULY	8	812.01	AUGUST	31	812.42	OCTOBER	24
812.78	JULY	9	812.04	SEPTEMBER	1	811.96	OCTOBER	25
812.92	JULY	10	812.22	SEPTEMBER	2	812.34	OCTOBER	26
812.56	JULY	11	812.13	SEPTEMBER	3	812.76	OCTOBER	27
812.63	JULY	12	811.93	SEPTEMBER	4	813.07	OCTOBER	28
812.73	JULY	13	812.21	SEPTEMBER	5	813.17	OCTOBER	29
812.60	JULY	14	812.43	SEPTEMBER	6	813.49	OCTOBER	30
812.37	JULY	15	812.34	SEPTEMBER	7	813.43	OCTOBER	31
812.94	JULY	16	812.53	SEPTEMBER	8	813.07	NOVEMBER	1
812.54	JULY	17	812.65	SEPTEMBER	9	813.05	NOVEMBER	2
812.32	JULY	18	812.79	SEPTEMBER	10	813.04	NOVEMBER	3
812.41	JULY	19	812.73	SEPTEMBER	11	813.06	NOVEMBER	4
812.49	JULY	20	812.69	SEPTEMBER	12	813.00	NOVEMBER	5
812.56	JULY	21	812.60	SEPTEMBER	13	813.10	NOVEMBER	6
812.47	JULY	22	812.44	SEPTEMBER	14	812.58	NOVEMBER	7
812.50	JULY	23	812.49	SEPTEMBER	15	811.87	NOVEMBER	8
812.42	JULY	24	812.57	SEPTEMBER	16	811.66	NOVEMBER	9
812.74	JULY	25	812.56	SEPTEMBER	17	812.18	NOVEMBER	10
812.61	JULY	26	812.68	SEPTEMBER	18	813.94	NOVEMBER	11
812.74	JULY	27	812.71	SEPTEMBER	19	813.08	NOVEMBER	12
812.96	JULY	28	812.87	SEPTEMBER	20	812.34	NOVEMBER	13
812.86	JULY	29	812.78	SEPTEMBER	21	811.72	NOVEMBER	14
812.85	JULY	30	812.79	SEPTEMBER	22	811.23	NOVEMBER	15
813.81	JULY	31	812.83	SEPTEMBER	23	810.68	NOVEMBER	16
813.46	AUGUST	1	812.69	SEPTEMBER	24	810.39	NOVEMBER	17
812.97	AUGUST	2	812.61	SEPTEMBER	25	810.44	NOVEMBER	18
812.43	AUGUST	3	813.62	SEPTEMBER	26	810.45	NOVEMBER	19
812.40	AUGUST	4	814.00	SEPTEMBER	27	810.44	NOVEMBER	20

Table 9. Tellico Reservoir water levels for 2009. (TVA)

ELEVATION	MONTH	DAY
810.21	NOVEMBER	21
809.44	NOVEMBER	22
809.33	NOVEMBER	23
809.45	NOVEMBER	24
809.80	NOVEMBER	25
810.19	NOVEMBER	26
810.38	NOVEMBER	27
810.61	NOVEMBER	28
810.68	NOVEMBER	29
810.67	NOVEMBER	30
810.39	DECEMBER	1
810.31	DECEMBER	2
810.37	DECEMBER	3
810.14	DECEMBER	4
809.77	DECEMBER	5
809.37	DECEMBER	6
808.72	DECEMBER	7
808.38	DECEMBER	8
810.51	DECEMBER	9
810.63	DECEMBER	10
809.99	DECEMBER	11
809.13	DECEMBER	12
808.28	DECEMBER	13
808.07	DECEMBER	14
808.64	DECEMBER	15
809.13	DECEMBER	16
809.11	DECEMBER	17
809.56	DECEMBER	18
810.02	DECEMBER	19
809.88	DECEMBER	20
809.28	DECEMBER	21
808.53	DECEMBER	22
808.23	DECEMBER	23
808.64	DECEMBER	24
810.01	DECEMBER	25
810.00	DECEMBER	26
809.70	DECEMBER	27
809.37	DECEMBER	28
809.25	DECEMBER	29
808.87	DECEMBER	30
808.97	DECEMBER	31

## Figures

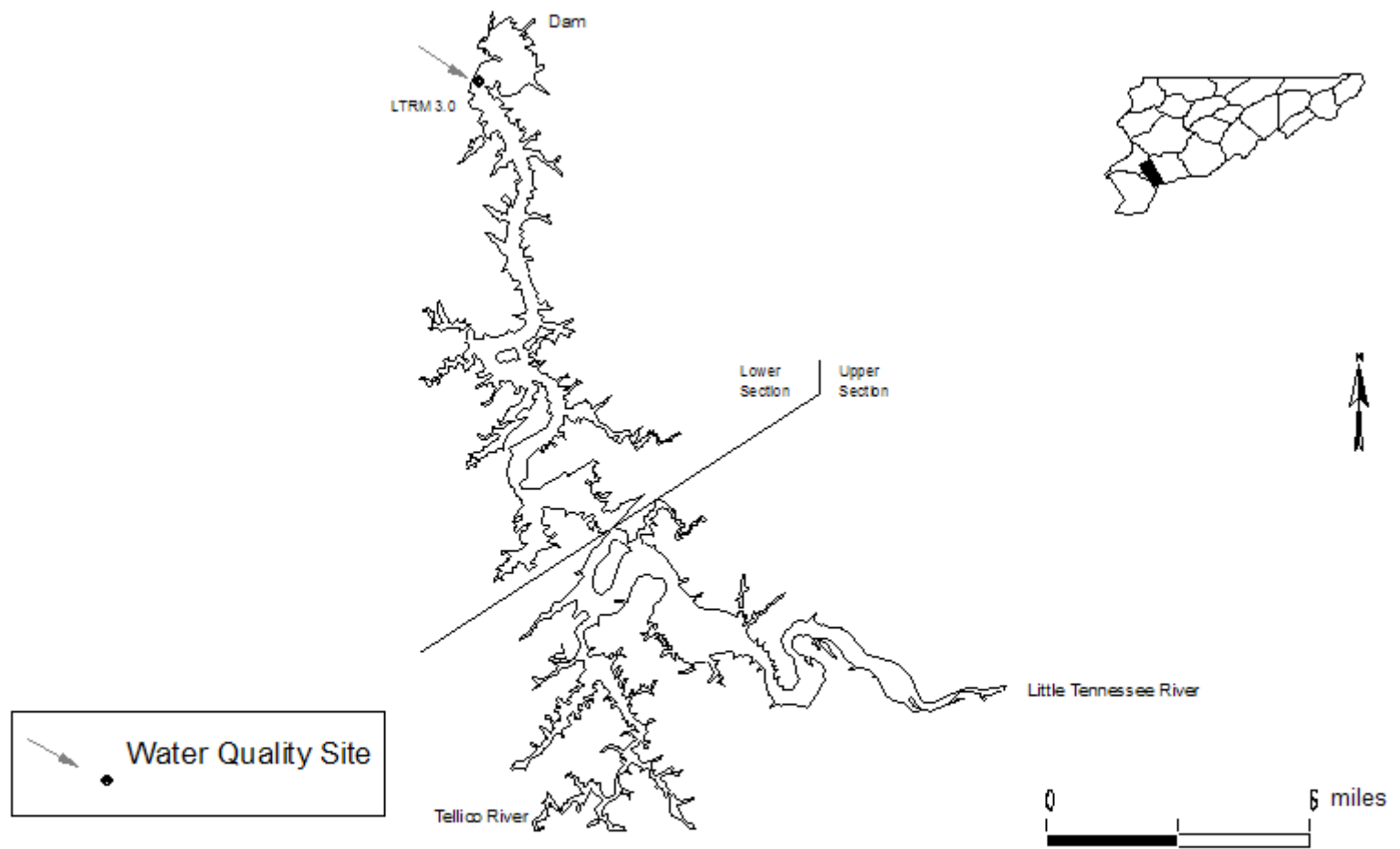


Figure 1. Water quality site and upper and lower section boundaries of Tellico Reservoir in 2009.

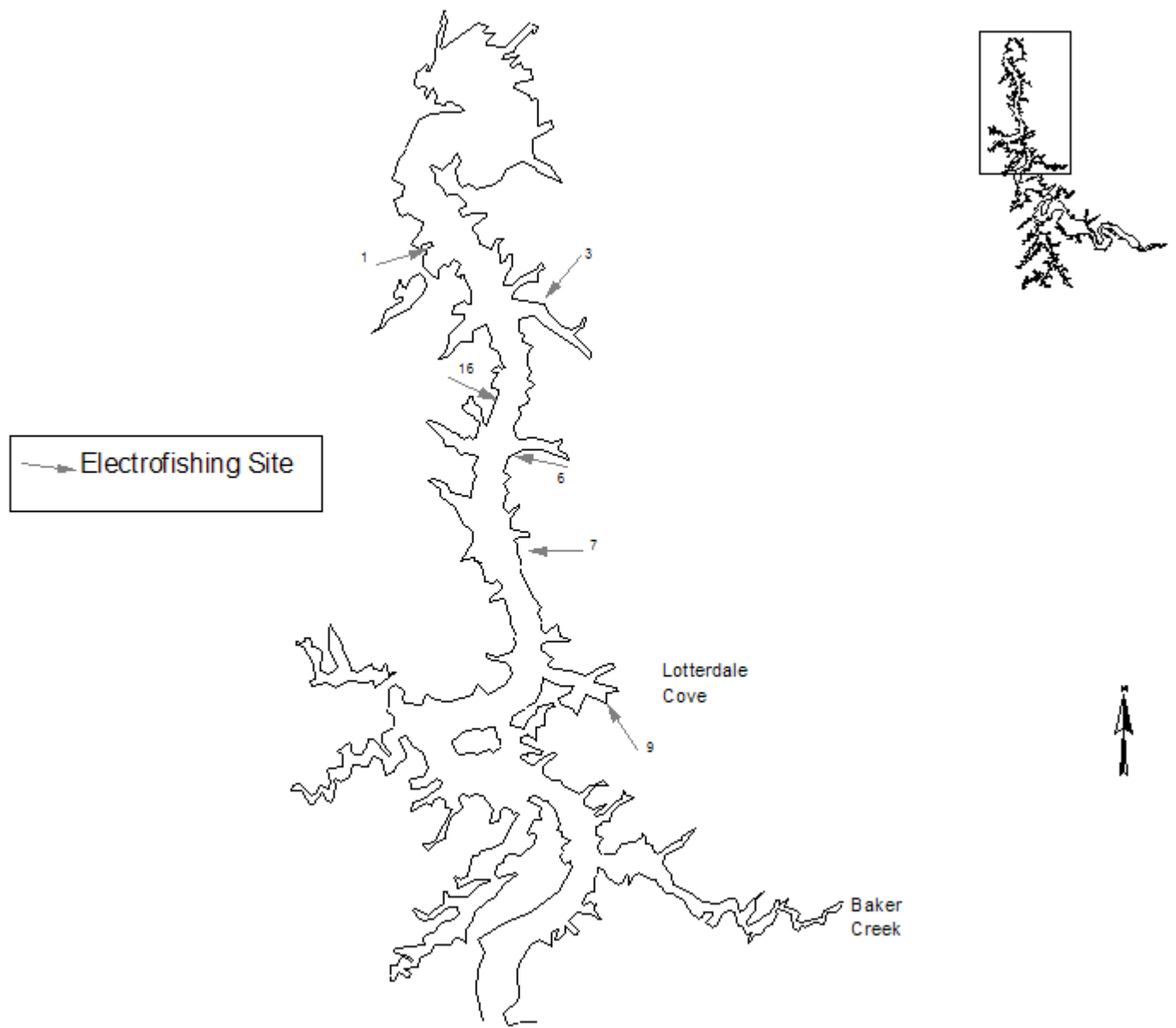


Figure 2. Electrofishing sites in the lower section of Tellico Reservoir in 2009.

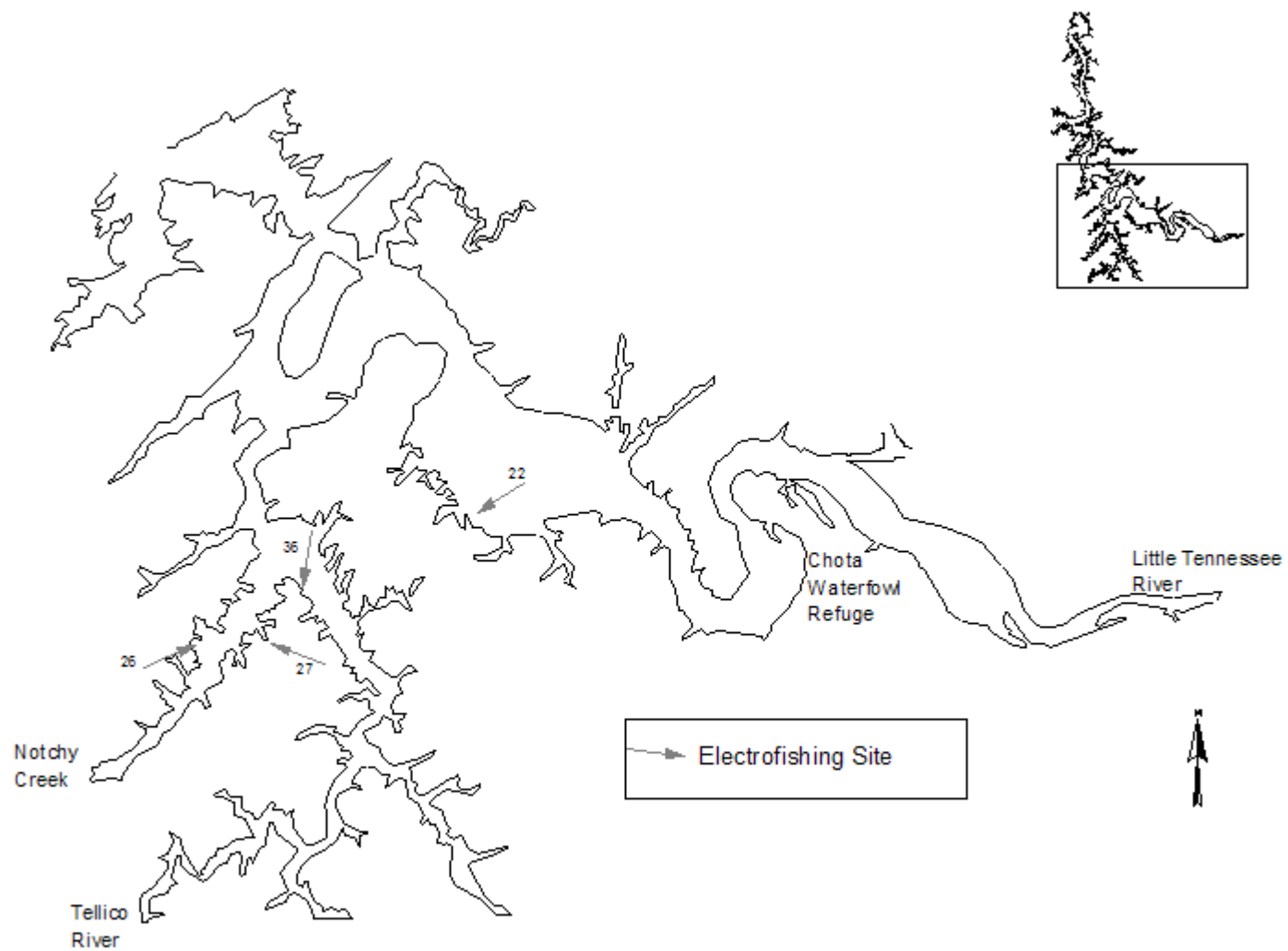


Figure 3. Electrofishing sites in the upper section of Tellico Reservoir in 2009.



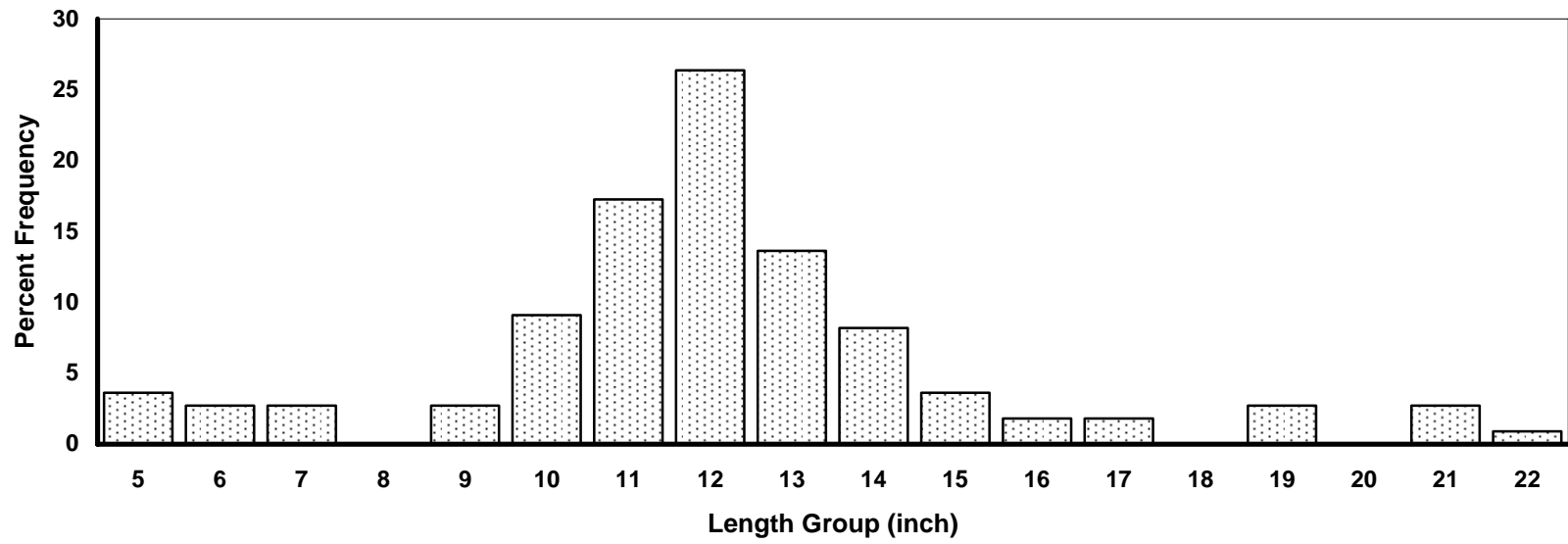


Figure 4. Tellico Reservoir largemouth bass length frequency by percent for the 2009 electrofishing sample (n=110).

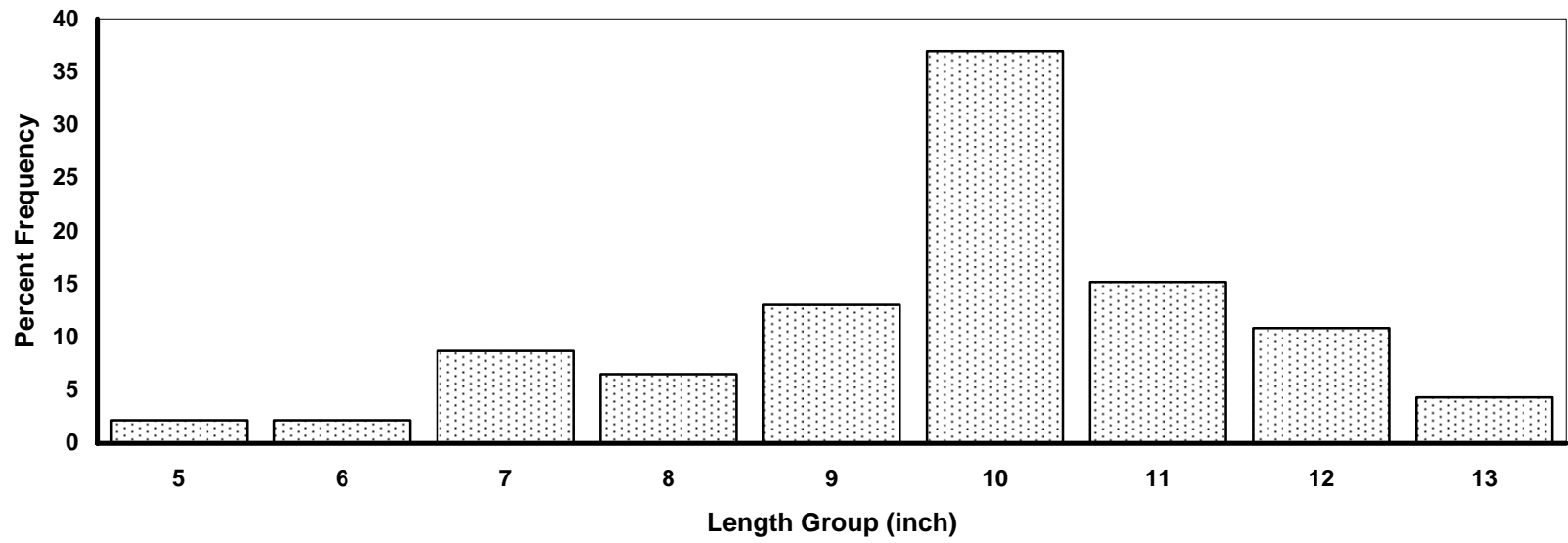


Figure 5. Tellico Reservoir spotted bass length frequency by percent for the 2009 electrofishing sample (n=46).

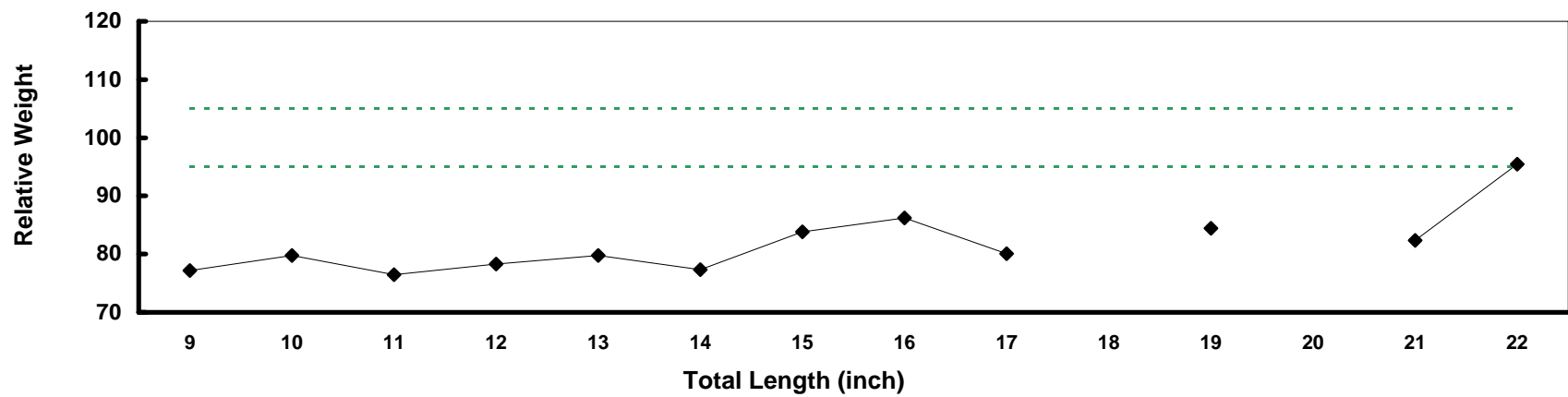


Figure 6. Tellico Reservoir largemouth bass mean relative weight values from the 2009 electrofishing sample (n=100).

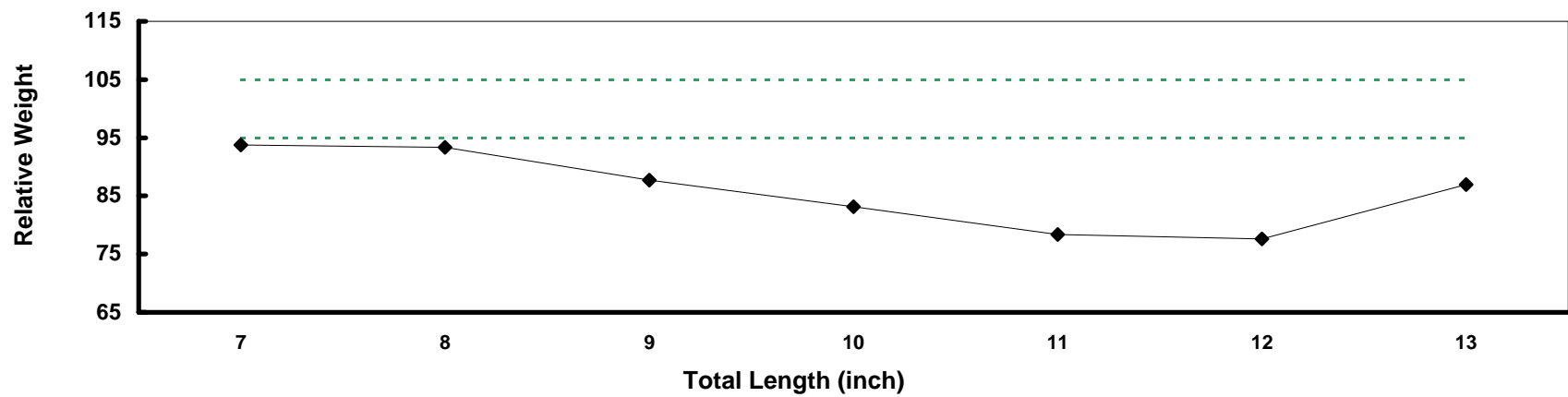


Figure 7. Tellico Reservoir spotted bass mean relative weight values from the 2009 electrofishing sample (n=41).

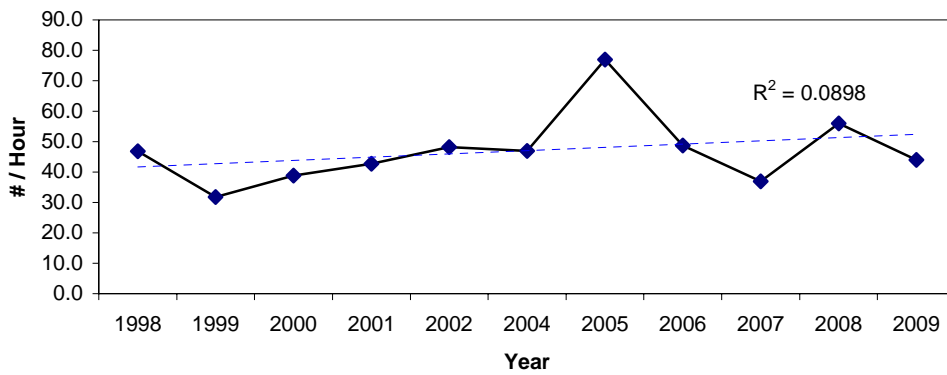


Figure 8. Tellico Reservoir largemouth bass electrofishing catch rates from 1998 to 2009.

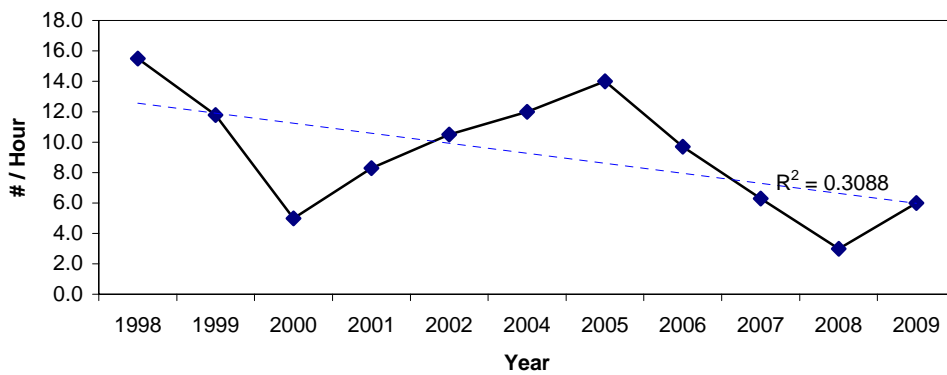


Figure 9. Tellico Reservoir smallmouth bass electrofishing catch rates from 1998 to 2009.

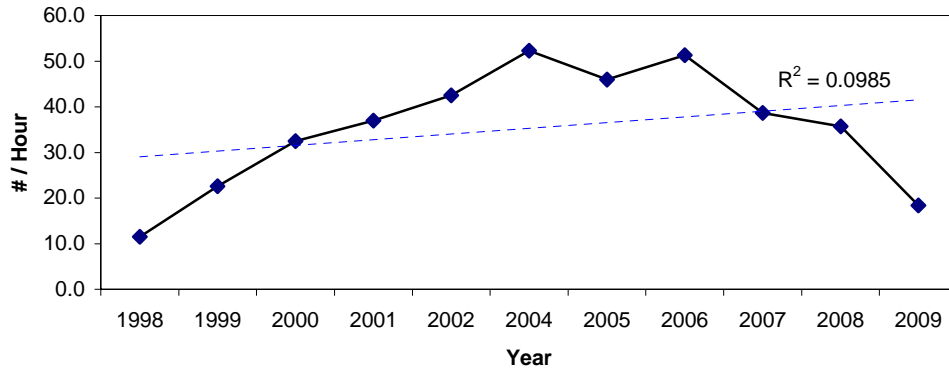


Figure 10. Tellico Reservoir spotted bass electrofishing catch rates from 1998 to 2009.

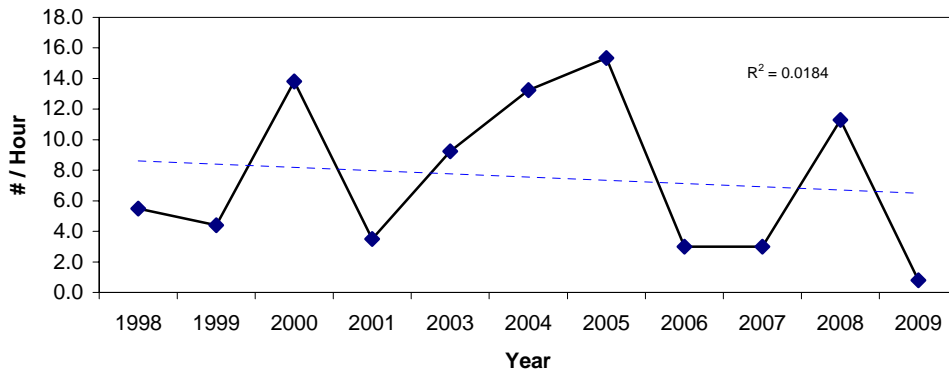
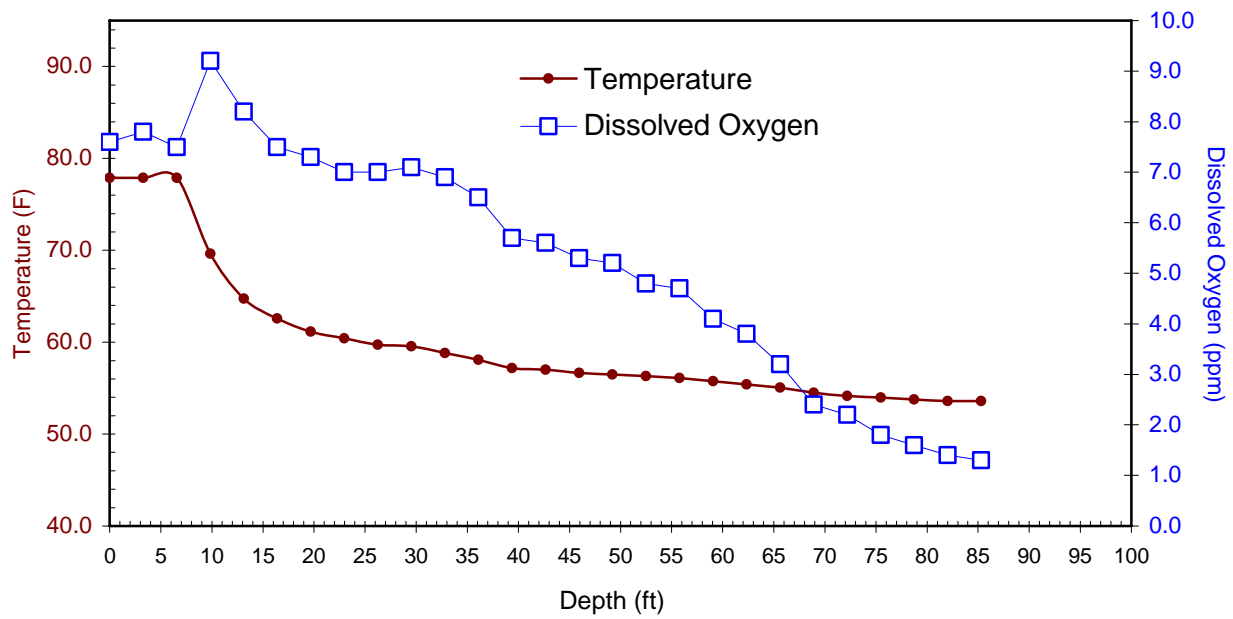


Figure 11. Tellico Reservoir white crappie electrofishing catch rates from 1998 to 2009.

Figure 12. Tellico Reservoir Water Quality at Little TN River Mile 3 - July 8, 2009



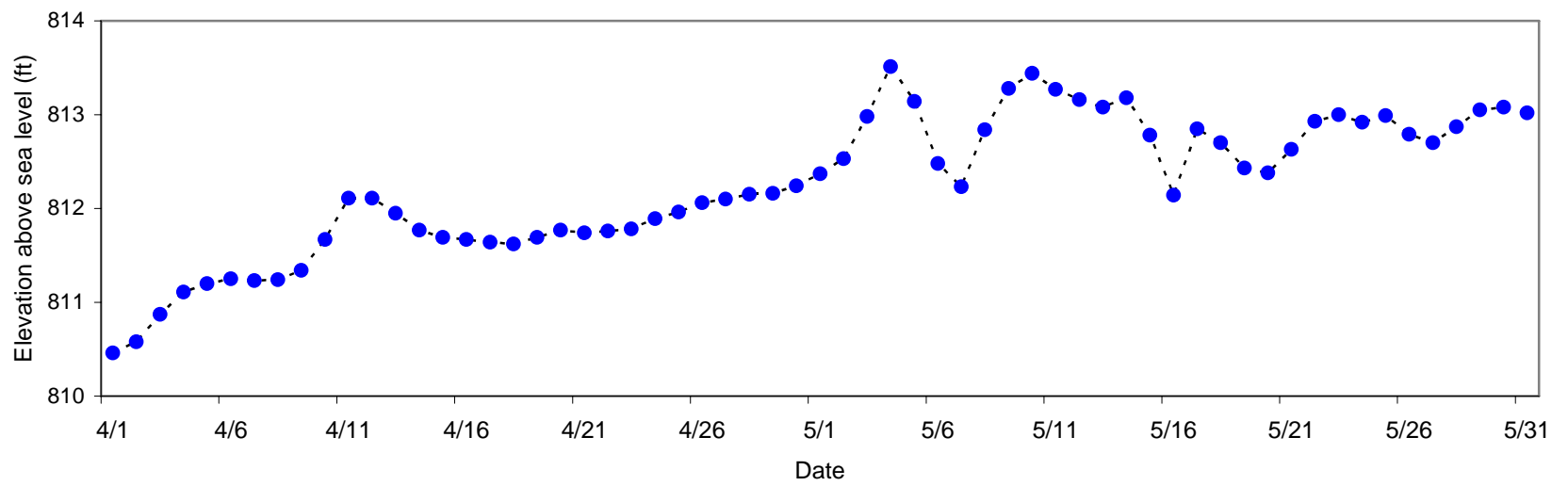


Figure 13. Tellico's 2009 April and May water levels (TVA data).